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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/016,558	12/06/2001	Albert Young	3COM-3730.CTO.US.P	6325	
75	90 09/19/2005	EXAMINER			
WAGNER, M	URABITO & HAO LL	SIMITOSKI, MICHAEL J			
Third Floor Two North Market Street			ART UNIT	PAPER NUMBER	
San Jose, CA 95113			2134		
			DATE MAILED: 09/19/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    10/016,558			Application	n No.	Applicant(s)				
Michael J. Simitoski   2134			10/016,55	8	YOUNG ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions for many be evaluate under the provisions of 37 GFt 11360, in no event, however, may a reply be timely filled.  If NO period for reply is apecified above, the maximum statutory princips will apply and will expire SIX (8) MONTHS from the mailing date of this communication.  Fallute to reply which he sat or excented period for right will, by statute, cause the application to some ABMONDER(5 SIX SIX 5, 133). Any reply received princip for give they state the realing date of this communication, even if timely filled, may reduce any center plantin time displanment. Sets 37 GFR 17-1069.  Status  1) □ Responsive to communication(s) filled on 27 June 2005.  2a □ This action is FINAL.  2b □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 1-60 is/are pending in the application.  4a) Of the above claim(s) 2-7.20.22-27.40.42-47 and 50 is/are withdrawn from consideration.  5) □ Claim(s) 1.619 is/are allowed.  6) □ Claim(s) 1.619 is/are allowed.  6) □ Claim(s) 1.619 is/are allowed.  7) □ Claim(s) 1.619 is/are allowed.  8) □ Claim(s) 1.619 is/are allowed.  8) □ The specification is objected to by the Examiner.  10) □ The drawing(s) filled on 05 December 2001 is/are: a) □ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.15(a).  11 □ Cretified copies of the priority documents have been received in Application nor form PTO-152.  Priority under 35 U.S.C. § 119  12 □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. §	•	Office Action Summary	Examiner		Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  □ Entraptions of time may be available under the probablisms of 37 CFR 1.130(a). In no went, Lowever, may a reigh be timely filled.  □ Entraptions of time may be available under the probablisms of 37 CFR 1.130(a). In no went, Lowever, may a reigh be timely filled.  □ If No period for eaply is specified above, the maximum statutory period will gray, and will expire \$(0) MONTH's from the mailing date of this communication.  □ Failway to right within the set or extended period for reply will, by statute, cause the application to become ABANDONED (18 U.S.C. § 133). Any reply recovered by the Office Status thrus these mostles after the mailing date of this communication, even if sumply filled, may reduce any control plants term subjectment. \$48.3.7 CFR 1.734(p).  Status  1) □ Responsive to communication(s) filled on 27 June 2005.  2a) □ This action is FINAL.  □ 2b) □ This action is filled to the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  □ 2b) □ Claim(s) □ 1.450 is/are pending in the application.  □ 1.150 □ This action is active the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  □ 2b) □ Claim(s) □ 1.500 is/are allowed.  □ 1.500 is/are					<u> </u>				
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions from may be evaluate under the provious of 37 GF1 1369, in no event, however, may a regiv be timely filled after 5X (6) MORTHS from the mailing date of this communication. Size of 15X (6) MORTHS from the mailing date of this communication. Fails to the regival which has not exceeded period for regival to by the third state of the communication (will gaply and will expire SX (6) MORTHS from the mailing date of this communication. Fails to the regival which has not exceeded period for regival they taken, cause the application [2 st 3.C. 5, 133). Any reply received by the Office later than those months after the mailing date of this communication, even it breatly filled, may reduce any seamed patient than adjustment. See 37 CFR 1.704(6).  Status  1) □ Responsive to communication(s) filled on 27 June 2005.  2a) □ This action is FINAL.  2b) □ Claim(s) 1.60 (si/are pending in the application.  4a) Of the above claim(s) 2.7.20.22-27.40.42-47 and 60 is/are withdrawn from consideration.  5i□ Claim(s) 1.61 (si/are allowed.  6i□ Claim(s) 1.62 (si/are pending in the application.  4a) Of the above claim(s) 2.7.20.22-27.40.42-47 and 60 is/are withdrawn from consideration.  5i□ Claim(s) 1.62 (si/are pending in the application.  4a) Of the above claim(s) 2.7.20.22-27.40.42-47 and 60 is/are withdrawn from consideration.  5i□ Claim(s) 1.62 (si/are pending in the application.  4a) Of the above claim(s) 2.7.20.22-27.40.42-47 and 60 is/are withdrawn from consideration.  5i□ Claim(s) 1.62 (si/are pending in the application.  5i□ Claim(s) 1.62 (si/are pending in the application.  5i□ Claim(s) 1.62 (si/are pending in the application.  5i□ Claim(s) 1.62 (si/are pending in the application from the application from the attached of the drawning in the application from the application from the International Bureau (profit in the drawning in the app			cation appears on the	cover sheet with the o	correspondence ad	idress			
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Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some column None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)									
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Application/Control Number: 10/016,558

Art Unit: 2134

### **DETAILED ACTION**

- 1. The IDS of 3/11/2003 was received and considered.
- 2. Claims 1-60 are pending.

# Election/Restrictions

3. Claims 2-7, 20, 22-27, 40, 42-47 & 60 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 6/27/2005.

# Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1, 8-9, 19, 21, 28-29, 39, 41, 48-49 & 59 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 6,070,243 to See et al. (See).

Regarding claims 1, 19, 21, 39, 41 & 59, See discloses in a network comprising a first electronic device/intelligent edge device (Fig. 1, #10) and a second electronic device/network management station (Fig. 1, #20), an authentication method comprising authenticating said second electronic device/network management station to said first electronic device/intelligent edge device (col. 5, lines 43-47), said first electronic device communicatively coupled to said

Application/Control Number: 10/016,558

Art Unit: 2134

second electronic device (Fig. 1), authenticating said first electronic device to said second electronic device (col. 5, lines 43-47), determining a key at said first electronic device and at said second electronic device (col. 5, lines 45-47) and authenticating a user to a central authentication server (col. 5, lines 59-62, col. 6, lines 4-18 & col. 8, lines 14-48).

Regarding claims 8, 28 & 48, See discloses a method, wherein the first electronic device is a client device/intelligent edge device (Fig. 1, #10) and said second electronic device/network management station (Fig. 1, #20) is a central authentication server (Fig. 3A, #320).

Regarding claims 9, 29 & 49, See discloses a method, wherein a network device/intelligent edge device (Fig. 3A) is employed for providing an interface/ID RLY between said client device/intelligent edge (ID REQ) device and said central authentication server (Fig. 1).

## Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 10-11, 30-31 & 50-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over See, as applied to claims 9, 29 & 49 above, in view of Applied Cryptography, Second Edition by Schneier, in further view of Computer Dictionary, Third Edition by Microsoft. See lacks receiving a first standard message from said client device and receiving said first standard message at said central authentication server whereby said client device is identified to said

Art Unit: 2134

central authentication server. However, Schneier teaches a simple mutual authentication protocol, where Alice encrypts shared data with Bob's public key and sends it to him to verify Alice's authenticity (p. 54, §Mutual Authentication Using the Interlock Protocol, (1) and (5)) and Bob does the same in reverse (p. 54, §Mutual Authentication Using the Interlock Protocol, (3) and (4)). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify See to use the Interlock protocol, and hence to send a first standard message from the client device to the central authentication server to identify the client to the server and to send a second standard message from the central authentication server to the client to identify the server to the client. One of ordinary skill in the art would have been motivated to perform such a modification to permit the client and authentication server to mutually authenticate each other, as taught by Schneier (p. 54, §Mutual Authentication Using the Interlock Protocol, (1)-(5)). As modified, See lacks explicitly receiving the first standard message at said network device and forwarding the message to the central authentication server and receiving a second standard message from the central authentication server and forwarding it to the client. However, Microsoft teaches that a router is an intermediary device on a communications network that expedites message delivery and links many computers together by receiving transmitted messages and forwarding then to their correct destinations (p. 415, §Router). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify See to include a network device/router between the client/intelligent edge device and the central authentication server, and hence to receive the first standard message from the client and forward the message to the authentication server and to receive a second standard message from the authentication server and forward the message to the Art Unit: 2134

client. One of ordinary skill in the art would have been motivated to perform such a modification to expedite message delivery and link many computers together, as taught by Microsoft (p. 415, §Router).

8. Claims 10-17, 30-37 & 50-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over **See**, as applied to claims 9, 29 & 49 above, in view of "PPP EAP TLS Authentication Protocol" by Aboba et al. (**Aboba**).

Regarding claims 10, 13, 30, 33, 50 & 53, as described above, See lacks receiving a first standard message from said client device and receiving said first standard message at said central authentication server whereby said client device is identified to said central authentication server. However, Aboba teaches the EAP TLS protocol to permit mutual authentication and key exchange between two endpoints (p. 1, §1, ¶2). The protocol includes receiving a first standard message/client response packet (p. 4, ¶3) from the client to the authenticator (p. 2, §3.1) at a network device/authenticator acting as a passthrough (p. 2, §3.1) and forwarding said first standard message/client response packet to a central authentication server/RADIUS server or backend security server (p. 2, §3.1 & p. 4, ¶3) and receiving said first standard message/client response packet at said central authentication server/RADIUS/EAP server, whereby the client device is identified to said central authentication server (p. 4, ¶4). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to receive a first message from a client at a network device and forward the message from the network device to a central authentication server. One of ordinary skill in the art would have been motivated to

Application/Control Number: 10/016,558

Art Unit: 2134

perform such a modification to permit mutual authentication and key exchange between two endpoints, as taught by Aboba (p. 1 §1 ¶2, p. 2 §3.1 & p. 4 ¶3-4).

Regarding claims 11, 14-15, 31, 34-35, 51 & 54-55, See lacks sending a second standard message to the network device from said central authentication server and forwarding the message to the client from the network device. However, Aboba teaches the EAP TLS protocol to permit mutual authentication and key exchange between two endpoints (p. 1, §1, ¶2). The protocol includes sending a second standard message/server key exchange message (p. 4, ¶1) to the network device/authenticator acting as a passthrough (p. 2, §3.1) and forwarding said second standard message to said client, whereby said central authentication server is authenticated to said client device (p. 5, ¶2). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to send a second message from a central authentication server to a network device and forward the message from the network device to the client. One of ordinary skill in the art would have been motivated to perform such a modification to permit mutual authentication and key exchange between two endpoints, as taught by Aboba (p. 1 §1 ¶2, p. 2 §3.1 & p. 4 ¶3-4).

Regarding claims 12, 16-17, 32, 36-37, 52 & 56-57, See lacks sending a third message to said network device from said client device and forwarding the third message to the central authentication server. However, Aboba teaches the EAP TLS protocol to permit mutual authentication and key exchange between two endpoints (p. 1, §1, ¶2). The protocol includes sending a third message/client key exchange message (p. 4, ¶3-4) to the network device/authenticator acting as a passthrough (p. 2, §3.1) and forwarding the message to the central authentication server/EAP server (p. 4, ¶3-4). Therefore, it would have been obvious to

Application/Control Number: 10/016,558 Page 7

Art Unit: 2134

one having ordinary skill in the art at the time the invention was made to send a third message from the client to a network device and forward the message from the network device to the central authentication server. One of ordinary skill in the art would have been motivated to perform such a modification to permit mutual authentication and key exchange between two endpoints, as taught by Aboba (p. 1 §1 ¶2, p. 2 §3.1 & p. 4 ¶3-4).

9. Claims 18, 38 & 58 are rejected under 35 U.S.C. 103(a) as being unpatentable over See, as applied to claims 1, 21 & 41 above, in view of How Networks Work by Derfler et al.

(Derfler). See lacks the first and second devices being communicatively coupled by a wireless connection. However, Derfler teaches that wireless LANs allow users to move around without losing their connection (p. 114). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify See to make use of a wireless LAN to couple the first and second devices. One of ordinary skill in the art would have been motivated to perform such a modification to enable users to move around without losing their connection, as taught by Derfler (p. 114).

### Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Simitoski whose telephone number is (571) 272-3841. The examiner can normally be reached on Monday - Thursday, 6:45 a.m. - 4:15 p.m.. The examiner can also be reached on alternate Fridays from 6:45 a.m. - 3:15 p.m.

Application/Control Number: 10/016,558 Page 8

Art Unit: 2134

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached at (571) 272-3838.

### Any response to this action should be mailed to:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Or faxed to:

(571) 273-8300

(for formal communications intended for entry)

Or:

(571) 273-3841 (Examiner's fax, for informal or draft communications, please label "PROPOSED" or "DRAFT")

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MJS

September 8, 2005

GREGORY MORSE
SUPERVISERY PATENT EXAMINER
TECHNOLOGY CENTER 2100

Ly Wh